

# PATENT ABSTRACTS OF JAPAN

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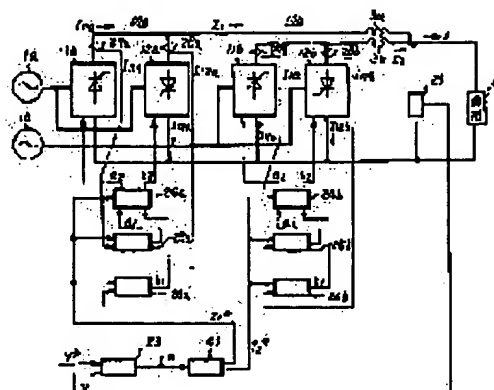
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## (54) POWER CONVERTER AND POWER CONVERTING SYSTEM

### (57)Abstract:

PROBLEM TO BE SOLVED: To obtain a power converter, having a good operational efficiency which does not allow the generation of a current pause period, when the polarity of a current flowing into the load side is inverted and prevent an over current due to a recovery power.

SOLUTION: A function generating means 41 outputs a first and a second current standards  $I1^*$ ,  $I2^*$ , depending on the current standard  $I^*$ , while a first and a second power converters 10a, 10b are individually controlled depending on  $I1^*$ ,  $I2^*$ . In this case, the proportional relationship for the current standard  $I^*$  of the first and second current standards  $I1^*$ ,  $I2^*$  changes, a time difference is given to the timing for inverting polarities of the output currents  $I1$ ,  $I2$  of the first and second power converters 10a, 10b and a pause period is never generated in the current flowing into the load 5, so that the combined output current  $I$  corresponds to the current standard  $I^*$  and value of current standard  $I^*$  setting the values of the  $I1^*$  and  $I2^*$  to zero is different in the range, where a value of the current standard  $I^*$  is less than the predetermined value.



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